

June
2007

Rebuild Michigan



PARTNER NEWS

Rebuild Michigan is designed to foster partnerships, which will promote increased energy efficiency and renewable energy use within communities. The program focuses on community-based energy planning to insure that local needs are met and that a sustained local effort is established.

Community partnerships develop comprehensive energy use strategies and organize a coalition to work towards fulfilling community energy goals.

The partnerships identify energy efficiency opportunities in commercial, institutional and multi-family buildings and encourage installation of improvements that will yield the highest energy and cost savings.

MICHIGAN DEPARTMENT OF
LABOR & ECONOMIC
GROWTH
ENERGY OFFICE

611 W. OTTAWA
P.O. Box 30221
LANSING, MI 48909

PHONE: 517-241-6228

WEBSITE:
WWW.MICHIGAN.GOV/
EOREBUILD

► COMMUNITY PARTNERSHIP UPDATE ◀

ESCANABA PUBLIC HOUSING COMMISSION (PHC) is promoting interest in their Rebuild Community Partnership among Upper Peninsula Housing Commissions. They expect to initiate projects with the Iron Mountain, Kingsford, Gladstone, Bessemer, Wakefield, Marquette and Manistique Commissions and all have expressed interest. Escanaba PHC's current focus is on water conservation due to recent increases in regional water rates but they expect the central focus to become energy efficiency once they've attracted more Commissions to their program. (Contact: Mary Lynn Sweeney at mlsweeney@harbortower.org)

CITY OF MARSHALL completed five Introductory Energy Evaluations of commercial buildings with help from their partner Fishbeck, Thompson, Carr and Huber Inc. The City has been focusing local Rebuild program efforts on energy education. They distributed more than 4,500 flyers on efficiency in using electric, gas and water resources. The City's Rebuild staff met with community groups to present information on ways to cut energy and water waste in homes and businesses. (Contact: Thomas Tarkiewicz at Ttarkiewicz@cityofmarshall.com)

NORTHEAST MI COUNCIL OF GOVERNMENTS (NEMCOG) is hosting an energy conference in Mackinac City on June 14. The conference will feature speakers from the State Energy Office, local government, engineering firms and colleges and universities on various energy efficiency and renewable energy topics. (Contact: Diane Rekowski at drekowski@nemcog.org)

TRAVERSE CITY LIGHT & POWER (TCLP) is developing a partnership with the federal ENERGY STAR program to help promote Compact Fluorescent Lights (CFLs) in fall of 2007. Tours of the utility's wind turbine will be given during the June Michigan Energy Fair in Onkema MI. TCLP is currently performing energy audits for their commercial and residential customers in the Traverse Bay Area. (Contact: Jim Cooper at jcooper@tclp.org)

► REBUILD MICHIGAN PARTNER UPDATE ◀

Since January 2007 the Rebuild Michigan Program has enrolled fifteen new public agency partners. The table to the right lists the most recent program partners, square footage they have committed to energy improvements, and potential energy savings. The Rebuild MI team completed Introductory Energy Evaluations (IEE) for these clients identifying the areas where energy use can be reduced and recommending a more detailed technical energy analysis if appropriate.

To view the complete list of new clients please go to www.michigan.gov/eorebuild and click on Rebuild MI Energy Services.

Since January, 1998, 428 school districts, local governments, and public housing authorities have joined the Rebuild Michigan program. Enrolled partners have pledged more than 152,000,000 square feet to energy efficiency projects.

Public building owners that are seeking help in reducing their energy use and bills through cost effective improvements may contact Tim Shireman at (517) 241-6281 or at tashire@michigan.gov.

Name	Square Feet	*Potential Annual Energy Savings (MMBTU)
Dexter Community School	751,747	15,034
City of Saugatuck	3,340	130
Holly Area Schools	716,537	14,330
Emmet County	178,960	6979
Airport Community Schools	378,759	7575
Southwestern Michigan College	265,220	5304
Grosse Pointe Public Schools	499,634	9992
City of Sturgis	233,530	9107

These numbers were calculated based on the US Department of Energy Data and may not reflect the actual annual energy savings achievable.

► DOE RELEASES NEW ENERGYPLUS SOFTWARE ◀

On April 13, 2007 the Department of Energy (DOE) released Version 2.0 of their award-winning EnergyPlus software. EnergyPlus is a state-of-the-art “building energy simulation technology” that can assist building designers, managers and engineers to find energy savings and efficiencies for their own facility. As an upgrade from the original version, EnergyPlus 2.0 features enhanced building controls, green roofs, phase change materials and many other energy saving features.

DOE has been receiving suggestions for improvement since the introduction of EnergyPlus to update the features of the software. The software can calculate heating

and cooling, conditions throughout a secondary HVAC system and coil loads and primary plant equipment energy consumption. The software integrates all of these factors for your specific building specifications and will provide an accurate simulation of how a real building would perform. The software can then assist you in what possible actions you can take to achieve energy savings and efficiency.

Over 50,000 copies of the Department of Energy’s EnergyPlus software have already been downloaded with no cost to the user. If you would like to download the software you can visit the website at www.eere.energy.gov/buildings/energyplus.

► HIGH PERFORMANCE BUILDINGS ◀

The U.S. Department of Energy (DOE) supports the "Building Technologies Program" which works in partnership with state governments, manufacturers and various industries to improve the energy efficiency of the nation's buildings. DOE also is a large supporter of High Performance Commercial Buildings that are energy efficient, healthy and comfortable places to learn and work. Commercial buildings consume 17% of the total energy consumed in the United States. By reducing energy use in commercial and industrial buildings, you can see a decrease in energy use by up to 50%. Reduced maintenance and capital costs by using whole-building design or updating your building envelope and other important aspects of your buildings upkeep are other benefits you can experience. Other benefits include occupant comfort and health and increased employee productivity.

Recent studies have shown that when buildings are designed environmentally friendly and with the occupants in mind that productivity can increase up to 20% for both learning and working. If you would like to learn more about the Department of Energy's (DOE) Whole-Building Design and other Energy Efficiency tools visit their website at <http://www.eere.energy.gov/buildings/highperformance/>. At this website you will find tools and technologies that you can use as a building manager to help reduce your annual building costs and energy use.

► RENEWABLE ENERGY TIDBIT ◀

Three partners in biodiesel promotion broke ground on May 15 for the Biodiesel Industries' newest facility in Detroit MI. The three partners who have promoted this project; Biodiesel Industries Inc., NextEnergy and DaimlerChrysler say that this plant will perform biodiesel research, development and production. The plant will have the capacity to produce 10 million gallons of biodiesel per year. If you would like to learn more about this project and other Renewable Energy Events in Michigan visit http://www.eere.energy.gov/states/_specific_information.cfm/state=MI.

► FEATURED PUBLICATIONS ◀**Building America
Research Benchmark
Definition**

This publication through the U.S. DOE is a helpful booklet that deals with the benchmarking process for both residential and commercial buildings.

<http://www.nrel.gov/docs/fy07osti/40968.pdf>

**Energy Trends in
Selected Manufacturing
Sectors: Opportunities
and Challenges for
Environmentally
Preferable Energy
Outcomes**

This EPA report discusses new energy trends for the manufacturing and commercial sector and the implications of energy use.

<http://www.icfi.com/>

**Reduce Energy Use in
Water & Wastewater
Facilities Through
Conservation**

This publication through California Leep describes procedures that can assist in energy savings and yearly cost savings. Although the case studies are from California, the information provided is useful for facility managers.

<http://www.caleep.com/docs/FYPowerWaterWastewaterGuide.pdf>

If you would like to receive the newsletter electronically please email Chelsea Pearson at pearsonc@michigan.gov

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► ENERGY EVENTS ◀

Energy Conference

June 14, 2007

Mackinaw City, MI

<http://www.nemcog.org/>

2nd Annual Michigan Energy Fair

June 22nd-June 24th, 2007

Manistee County Fairgrounds

www.glrea.org

Certified Pool Operator Workshop

July 17-18, 2007

MASB, Lansing MI

<http://www.msbo.org>

LEED Workshop

August 2007

MAREC, Grand Valley State
University

[http://chapters.usgbc.org/
westmichigan/events.html](http://chapters.usgbc.org/westmichigan/events.html)

Introduction to School Business

September 25-26, 2007

Kellogg Center, East Lansing

<http://www.msbo.org>

Advertise your future energy efficient events with the Re- build MI Partner Newsletter.

*If your school district, community or local facilities are hosting an energy event and you would like to advertise your event, email your requests to Chelsea Pearson at pearsonc@michigan.gov and see your area's event in the next Rebuild MI Partner Newsletter.